OUROPEAN PATENT OFF

Patent Abstracts of Japan

PUBLICATION NUMBER

05299914

PUBLICATION DATE

12-11-93

APPLICATION DATE

21-04-92

APPLICATION NUMBER

04101440

APPLICANT:

MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR:

SETSUNE KENTARO; ENOHARA

AKIRA; SAGAWA MORIKAZU:

MAKIMOTO MITSUO;

INT.CL.

H01P 7/08 C01G 1/00 C01G 3/00

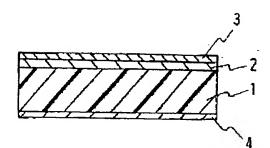
H01L 39/22 H01P 1/203 H01P 11/00

TITLE

SUPERCONDUCTING HIGH

FREQUENCY RESONATOR AND

FILTER



ABSTRACT :

PURPOSE: To obtain the small sized resonator by forming a high frequency transmission line employing a copper oxide group material as a superconducting thin film and forming a

loop shaped transmission line having an open end.

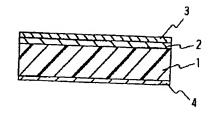
CONSTITUTION: A high frequency transmission line is made of a superconducting thin film and the high frequency transmission line is made of a single line made of a loop strip or a microstrip line. For example, a Bi-Sr-Ca-Cu-O superconducting thin film is formed on an MgO substrate 1 by the sputtering vapor-deposition, the laser abrasion method, the electronic beam vapor-deposition method or the CVD method or the like. After the heat treatment, the metallic thin film 3 is vapor-depositted and a loop strip or microstrip line is formed on the film 3. Then a metallic thin film 4 is vapor-depositted to form a high

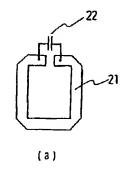
frequency circuit device.

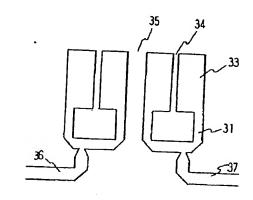
COPYRIGHT: (C) JPO

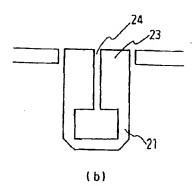
【図2】



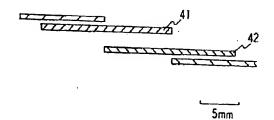








【図4】



フロントページの続き

(\$1) Int. C1. 5 H 0 1 P 11/00

識別記号 厅内整理番号 ZAAG

FΙ

技術表示箇所

(72)発明者 牧本 三夫

大阪府門真市大字門真1006番地 松下電器 産業株式会社内